

We Claim:

1. A cutting tool insert comprising a substrate and a coating, the coating comprising one or more layers of refractory compounds of which at least one layer
5 comprises a MAX-phase defined as $M_{n+1}AX_n$ where n is 1, 2 or 3, M is one of the elements Ti, Zr, Hf, V, Nb, Ta, Cr or Mo, A is Al, Si or S, and X is C, N and/or B.
2. The cutting tool insert according to claim 1, wherein X is at least 40
10 at% N.
3. The cutting tool according to claim 2, wherein M is Ti, A is Al and X
is (N_{1-x}, C_x) where x is between 0 and 0.6.
4. The cutting tool according to claim 3, wherein X is N.
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5. The cutting tool according to claim 1, wherein the at least one layer is
the outermost or the second outermost layer of the coating.
6. The cutting tool according to claim 1, wherein the at least one layer is
20 combined with at least one additional hard wear resistant layer of metal nitrides
and/or carbides and/or oxides of metal elements chosen from Ti, Zr, Hf, V, Nb, Ta,
Cr, Mo, W, Si and Al.

7. The cutting tool according to claim 1, wherein the at least one layer has a thickness of 0.5-20 μm .

8. The cutting tool according to claim 7, wherein the thickness is 0.5-10
5 μm .

9. The cutting tool according to claim 1, wherein the at least one layer is deposited with a PVD technique.